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4655 Great America Parkway
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# Nortel Secure Network Access Switch 4050 Installation Guide

NORTEL

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- EMC - Electromagnetic Immunity – CISPR 24
- Electrical Safety – IEC 60950, with CB member national deviations

Further, the equipment has been certified as compliant with the national standards as detailed below.

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#### EN 55 024 statement

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### MIC notice for Nortel Secure Network Access Switch 4050 (Republic of Korea only)

This device has been approved for use in Business applications only per the Class A requirements of the Republic of Korea Ministry of Information and Communications (MIC). This device may not be sold for use in a non-business application.

Observe the Regulatory Marking label on the bottom surface of the chassis for specific certification information pertaining to this model. Each model in the Ethernet Switch Series which is approved for shipment to/usage in Korea is labeled as such, with all appropriate text and the appropriate MIC reference number.

## National safety statements of compliance

### CE marking statement (Europe only)

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The following information is provided on the devices described in this document in compliance with the safety requirements of the Norma Oficial Méxicana (NOM):

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|---|---|
| Exporter: | Nortel Networks<br>600 Technology Park Drive<br>Billerica MA 01821 USA |
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| Tel: | 52 5 480 2100 |
| Fax: | 52 5 480 2199 |
| Input: | Nortel Secure Network Access Switch 4050<br>100-240 VAC 6.3 A 50-60 Hz |

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| Tel: | 52 5 480 2100 |
| Fax: | 52 5 480 2199 |
| Embarcar a: | Nortel Secure Network Access Switch 4050<br>100-240 VAC 6.3 A 50-60 Hz |

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# Preface

This guide provides instructions to install the Nortel Secure Network Access Switch 4050 (Nortel SNAS 4050).

The guide is intended for network component installers, systems administrators, and switch administrators who

- understand networks, Ethernet bridging, and Internet Protocol (IP) routing.
- understand networking concepts, terminology, and topology.
- prepare, install, and configure components on LAN and WAN networks.
- understand and follow safety practices during hardware installation procedures.

## Before you begin

Ensure that the area where you install the Nortel Secure Network Access Switch 4050 meets the following environmental requirements:

- Ambient temperature between 32° F and 104° F (0° C and 40° C)
- Relative humidity between 5% and 85% non-condensing
- No nearby heat sources such as hot air vents or direct sunlight
- No nearby sources of severe electromagnetic noise
- No excessive dust
- Adequate power source within six feet; one 15-Amp circuit required
- At least 2 inches (5.08 cm) on each side of the switch unit for ventilation
- Adequate space at the front and rear of the switch for access to cables

If you are installing a single Nortel Secure Network Access Switch 4050 on a table or shelf, ensure that the surface can support at least 15 to 20 pounds (7 to 9 kilograms).

# Text conventions

This guide uses the following text conventions:

| | |
|---|---|
| angle brackets < > | Indicate that you choose the text to enter based on the description inside the brackets. Do not type the brackets when entering the command.<br>Example: If the command syntax is `ping <ip_address>`, you enter **`ping 192.32.10.12`** |
| **bold body text** | Indicates objects such as window names, dialog box names, and icons, as well as user interface objects such as buttons, tabs, and menu items. |
| **`bold Courier text`** | Indicates command names, options, and text that you must enter.<br>Example: Use the **`dinfo`** command.<br>Example: Enter **`show ip`** `{`**`alerts`**`\|`**`routes`**`}`. |
| braces {} | Indicate required elements in syntax descriptions where there is more than one option. You must choose only one of the options. Do not type the braces when entering the command.<br>Example: If the command syntax is `show ip {alerts\|routes}`, you must enter either **`show ip alerts`** or **`show ip routes`**, but not both. |
| brackets [ ] | Indicate optional elements in syntax descriptions. Do not type the brackets when entering the command.<br>Example: If the command syntax is `show ip interfaces [-alerts]`, you can enter either **`show ip interfaces`** or **`show ip interfaces -alerts`**. |
| ellipsis points (. . . ) | Indicate that you repeat the last element of the command as needed.<br>Example: If the command syntax is `ethernet/2/1 [<parameter> <value>]...`, you enter **`ethernet/2/1`** and as many parameter-value pairs as needed. |

| | |
|---|---|
| *italic text* | Indicates variables in command syntax descriptions. Also indicates new terms and book titles. Where a variable is two or more words, the words are connected by an underscore.<br>Example: If the command syntax is `show at <valid_route>`, *`valid_route`* is one variable and you substitute one value for it. |
| `plain Courier text` | Indicates command syntax and system output, for example, prompts and system messages.<br>Example: `Set Trap Monitor Filters` |
| separator > | Shows menu paths.<br>Example: **Protocols > IP** identifies the **IP** command on the **Protocols** menu. |
| vertical line \| | Separates choices for command keywords and arguments. Enter only one of the choices. Do not type the vertical line when entering the command.<br>Example: If the command syntax is `show ip {alerts\|routes}`, you enter either **`show ip alerts`** or **`show ip routes`**, but not both. |

# Hard-copy technical manuals

To access Nortel technical documentation online, open your browser and go to the Nortel Web site at www.nortel.com/support.

You can download and print technical manuals and release notes directly from the Nortel web site. Use Adobe* Reader* to open the manuals and release notes, search for the sections you need, and print them on most standard printers. Go to Adobe Systems at the www.adobe.com URL to download a free copy of the Adobe Reader.

# How to get help

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel service program, use the www.nortel.com/support web page to contact Nortel for assistance.

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# Chapter 1
# Overview

This chapter covers the following topics:


| Topic | Page |
|---|---|
| Installation package contents | 17 |
| Switch physical features | 18 |


## Installation package contents

Table 1 lists the contents of the Nortel Secure Network Access Switch 4050 installation package.

**Table 1** Package contents

| Item | Purpose |
|---|---|
| North American power cord | To meet North American power specifications. Not supplied if an alternate country cord is ordered. |
| European power cord | To meet European power specifications. Not supplied if an alternate country cord is ordered. |
| Console cable | To connect the Nortel SNAS 4050 to a personal computer or local terminal |
| Bezel adapter kit with (2) brackets and (4) rubber feet | To install the Nortel SNAS 4050 on a flat surface |
| Set of (4) mounting screws | To install the Nortel SNAS 4050 in a rack |
| *Nortel Secure Network Access Switch 4050 Installation Guide* (320846-A) | This guide |

# Switch physical features

The Nortel Secure Network Access Switch 4050 front panel has buttons and indicators for normal operation. The front panel bezel is removable for access to the CD drive. The switch rear panel has port and power supply access.

## Front panel

Figure 1 shows the Nortel Secure Network Access Switch 4050 front panel view. Table 2 describes front panel features.

**Figure 1** Front panel view with bezel

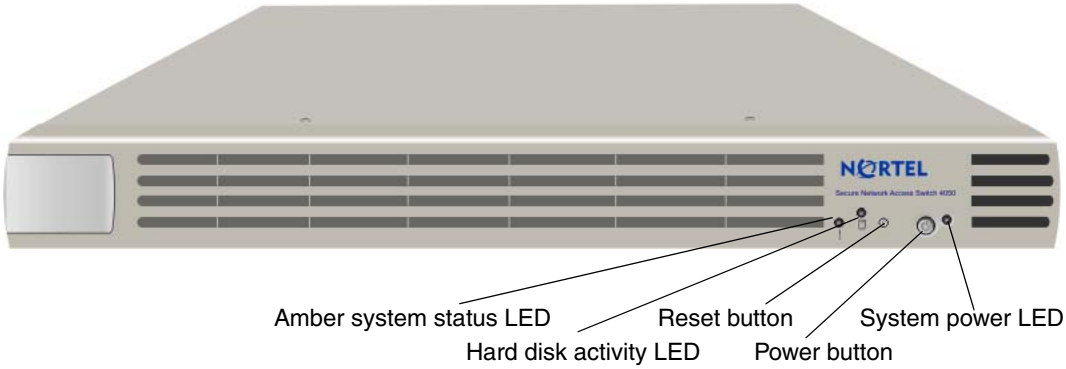



**Table 2** Front panel features

| Indicator or Button | Description |
|---|---|
| Amber system status LED | On when system needs attention due to power supply, fan, CPU, or device temperature problems |
| Hard disk drive activity LED | Blinks during hard disk drive activity |
| Reset button | Reboots the switch |
| Power button | Turns on switch power |
| System power LED | Shows green when power is on |

## Removing the front panel bezel

Remove the bezel for CD drive access. Replace the bezel when you are done.

To remove the bezel, follow these steps:

1. On the left front of the unit, locate and open the bezel release flap (Figure 2).
2. Grasp the bezel and slide the bezel to the right until disengaged.
3. Remove the bezel from the faceplate.

**Figure 2** Bezel removal

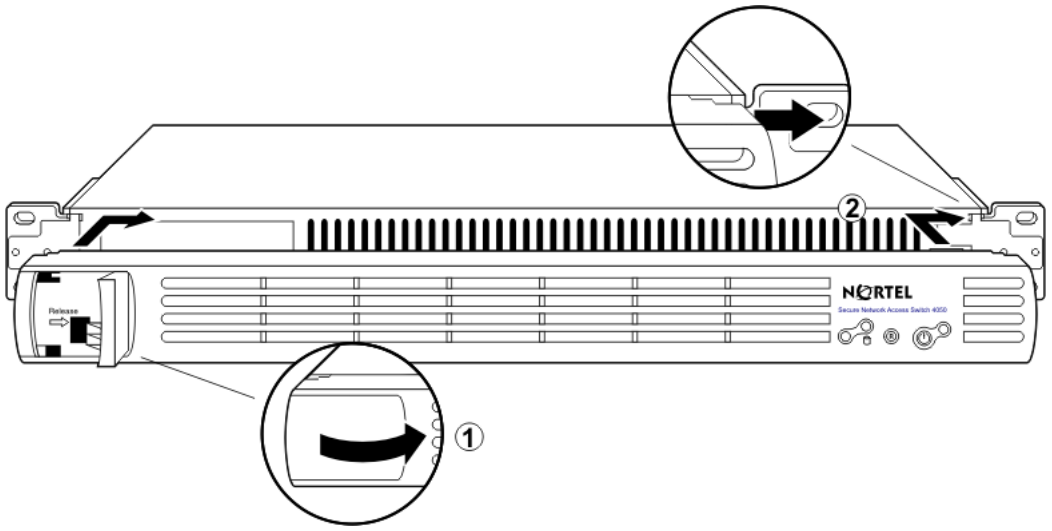
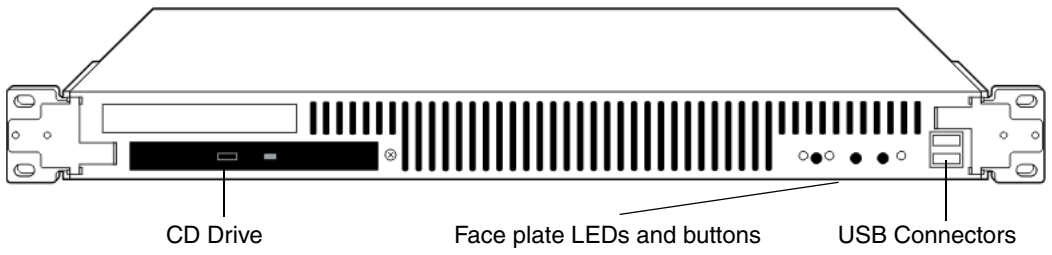



Figure 3 shows the front panel without the bezel.

**Figure 3** Front panel view without bezel



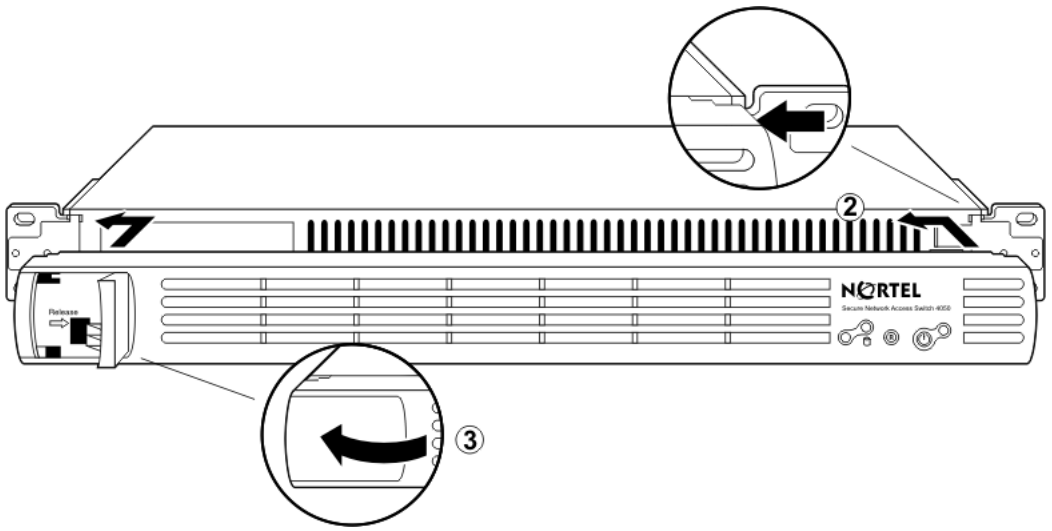
## Attaching the front panel bezel

Attach the bezel for normal operation.

To attach the bezel, follow these steps:

1. Align the bezel on the faceplate slightly to the right of the front panel.
2. With the release flap open, engage the bezel onto the track and slide it to the left until it locks into place (Figure 4).
3. Close the release flap.

**Figure 4** Bezel attachment



## Rear panel

Figure 5 shows the Nortel Secure Network Access Switch 4050 rear panel view. Table 3 describes rear panel features.

**Figure 5** Rear panel view

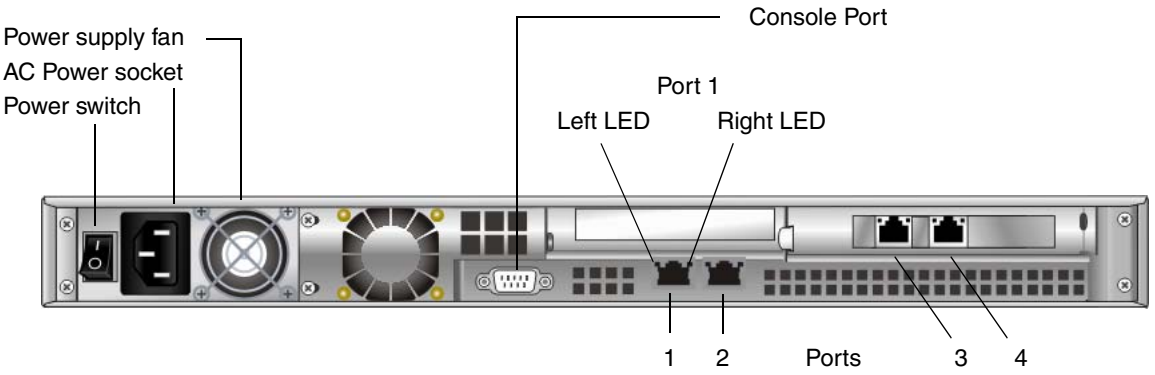



**Table 3** Rear panel features

| Item | Purpose |
|---|---|
| Power supply fan | Cools the power supply |
| AC power socket | Connects to the power source |
| Console port | Connects to the terminal or PC terminal emulator |
| LAN ports | Connect to the network |

All ports are Gigabit 10/100/1000 LAN ports. Ports 1 and 2 are on-board ports. Ports 3 and 4 are NIC (Network Interface Controller) ports. Status LEDs for each port are located above the port. (Port 1 LED locations are shown in Figure 5.)

Table 4 explains LED status indicators for ports 1 and 2. Table 5 explains LED status indicators for ports 3 and 4.

**Table 4** Ports 1 and 2 LED status indicators

| Port speed | Left LED | Right LED | Status |
|---|---|---|---|
| 10 Mb/s | Off | Green flashing | Port operates at 10 Mb/s. Cable connection between the port and network device (switch, hub, or router) is working. Port and network devices are receiving power and the NIC driver is operating properly.<br>When the right LED is flashing, the port is sending or receiving network data. The flash frequency varies with the amount of network traffic. |
| 100 Mb/s | Yellow/ flashing | Off | Port operates at 100 Mb/s. Cable connection between the port and network device is good. When the left LED is flashing, the port is sending or receiving network data. |
| 1000 Mb/s | On or flashing | On or flashing | Port operates at 1000 Mb/s. Cable connection between the port and network device is good. When the LEDs are flashing, the port is sending or receiving network data. |
| All speeds | Off | Off | One or more above conditions is not met. |

**Table 5** Ports 3 and 4 LED status indicators

| Port speed | Left LED | Right LED | Status |
|---|---|---|---|
| 10 Mb/s | Off | Green | Port operates at 10 Mb/s. Cable connection between the port and network device (switch, hub, or router) is good. The port and network device are receiving power and the NIC driver is operating properly. |
| 100 Mb/s | Green | Green | Port operates at 100 Mb/s. Cable connection between the port and network device is good. |
| 1000 Mb/s | Red | Green | Port operates at 1000 Mb/s. Cable connection between the port and network device is good. |

**Table 5** Ports 3 and 4 LED status indicators (continued)

| Port speed | Left LED | Right LED | Status |
|---|---|---|---|
| All speeds | | Flashing | Port is sending or receiving network data. Flash frequency varies with the amount of network traffic. |
| All speeds | Off | Off | One or more above conditions is not met. |

# Chapter 2
# Installation Process

This chapter covers the following topics:


| Topic | Page |
|---|---|
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| Installing the switch in a rack | 27 |
| Installing the switch on a shelf or tabletop | 27 |
| Supplying power to the switch | 28 |
| Setting up terminal access to the switch | 28 |
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## Safety precautions

Read all safety precautions before installing or servicing this device.

**Caution:** This device is a Class A product. In a domestic environment, this device can cause radio interference, in which case the user may be required to take appropriate measures. (See "Safety Message Translations" on page 39 for translations of this notice.)

### Ventilation safety

The ambient temperature of an operating Nortel Secure Network Access Switch 4050 must not exceed 35ºC. When installing the device in a closed or multi-unit rack assembly, please consider that the operating ambient temperature of the equipment can be higher than the ambient temperature of the room. Take appropriate steps to ensure that the device does not overheat.

For proper air circulation, the vents on the front and back of the device should not be blocked or obstructed by cables, panels, rack frames, or other materials.

## Electrical safety

**Danger:** Use only power cords that have a grounding path. Without a proper ground, a person who touches the switch is in danger of receiving an electrical shock. Lack of a grounding path to the switch may result in excessive emissions. (See "Safety Message Translations" on page 39 for translations of this notice.)

To avoid the possibility of serious personal injury or damage to equipment due to electrical malfunction, follow these precautions.

- Circuits and wiring must support the rated power draw of the equipment.
- Total rack-power load is equal to a maximum of eighty percent of the branch circuit rating.
- Power cords are free of obstructions.
- Power cords at plugs, convenience receptacles, and points of exit from the Nortel Secure Network Access Switch 4050 are carefully positioned.

## Mechanical safety

**Caution:** When mounting this device in a rack, do not stack units directly on top of one another in the rack. Each unit must be secured to the rack with appropriate mounting brackets. Mounting brackets are not designed to support multiple units. (See "Safety Message Translations" on page 39 for translations of this notice.)

For rack mounted installation, ensure that racks are stable and securely installed.

# Installing the switch in a rack

Install the Nortel Secure Network Access Switch 4050 in a rack using the four supplied rack mount screws. For rack installation, mounting brackets are shipped attached to the front of the unit.

Follow these steps to install the unit in a rack:

1. Identify a rack location and hole spacing alignment.
2. Separately supporting the full weight of the unit, use a #2 Phillips screwdriver to seat the four mounting screws through the front brackets and into the rack frame.

Continue the installation process by connecting the power supply. (See "Supplying power to the switch" on page 28.)

# Installing the switch on a shelf or tabletop

Install the Nortel Secure Network Access Switch 4050 on a flat surface using the supplied bezel adapter kit with 4 rubber feet.

Follow these steps to install the unit on a flat surface:

1. Identify a stable shelf or tabletop location.
2. Using a #2 Phillips screwdriver, remove and replace the 2 rack mount brackets with the 2 bezel adapter kit brackets.
3. Remove the protective film from each of the supplied rubber feet and affix the feet to the four bottom corners of the unit.

Continue by connecting the power supply. (See "Supplying power to the switch" on page 28.)

# Supplying power to the switch

Supply power after installing the unit in a rack or on a flat surface.

**Note:** Use of both the rear and front power switches is required for full switch operation.

## Connecting the power supply

Connect the power supply using the power cord ordered for this location.

To connect the power supply, follow these steps:

1. Connect the power cord to the power receptacle on the unit's rear panel.
2. Plug the cord into a properly fused outlet.
3. Set the rear power switch to the "|" ON position.
4. Switch the power on by pressing the power button on the front panel. The system power LED turns green to indicate that power is being supplied.

For normal use, switch the power on. Always disconnect the power before removing the unit from its installed location. Disconnect the power by setting the rear panel power switch to OFF.

# Setting up terminal access to the switch

The Nortel Secure Network Access Switch 4050 has a console port for system diagnostics and configuration. This section explains how to connect a terminal to the console port in order to establish a first console connection.

For instructions on viewing and configuring system settings using either a console connection or network connection (via Telnet or SSH), see the *Nortel Secure Network Access Switch 4050 User Guide* (320818-A).

## Terminal requirements

To establish a connection with a Nortel Secure Network Access Switch 4050, the following requirements are necessary:

- An ASCII terminal or a computer running ASCII terminal emulation software with the parameters shown in Table 6.

**Table 6** Console configuration parameters

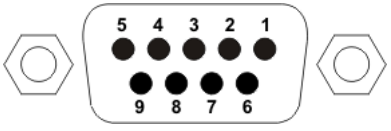
| Parameter | Value |
|---|---|
| Baud Rate | 9600 |
| Data Bits | 8 |
| Parity | None |
| Stop Bits | 1 |
| Flow control | None |

- A console cable, male to female, with DB-9 connectors and 1 to 1 connections (shipped with the Nortel Secure Network Access Switch 4050).

## Console connector and pin assignments

The console port on the unit is a DCE female DB-9 connector. Table 7 describes pin signal and I/O assignments for this connector.

**Table 7** Pinouts for DB-9 console connector

| DB-9 Console Port Connector | Pin | Signal | I/O | Description |
|---|---|---|---|---|
|  | 1 | DCD | O | Data carrier detect |
| | 2 | RXD | O | Received data |
| | 3 | TXD | I | Transmitted data |
| | 4 | DTR | I | Data terminal ready |
| | 5 | GND | N/A | Signal ground |
| | 6 | DSR | O | Data set ready |
| | 7 | RTS | I | Request to send |
| | 8 | CTS | O | Clear to send |
| | 9 | RI | O | Ring indicator |
| | Shell | N/A | N/A | Chassis ground |

## Establishing a console connection

Establish a console connection by cabling the unit to a terminal or a computer running a terminal emulator session.

To establish a console connection, follow these steps:

1. Using the supplied console cable, connect the terminal to the console port.
2. Power on the terminal and the Nortel Secure Network Access Switch 4050.
3. To initiate the system connection process, press ENTER on the terminal.
4. At the login prompt, log in as user: `admin`.
5. At the password prompt, enter the administrator password. The default administrator password is `admin`.

**Note:** To ensure continuing system security, change the default password to the password of your choice after you successfully configure the switch.

After password verification, the system displays the Setup menu with the information shown in Figure 6.

**Figure 6** Setup menu

```
Alteon iSD NSNAS
Hardware platform: 4050
Software version: x.x
-----------------------------------------------------
[Setup Menu]
   join     - Join an existing cluster
   new      - Initialize host as a new installation
   boot     - Boot menu
   info     - Information menu
   exit     - Exit [global command, always available]

>> Setup#
```

Continue the set-up process using instructions for initial setup in the *Nortel Secure Network Access Switch 4050 User Guide* (320818-A).

# Troubleshooting installation

Two situations require troubleshooting:

- The system does not power on correctly.
- The system powers on but shows no display text for initiating a session with the switch.

## No power

If the Nortel Secure Network Access Switch 4050 system does not power on with LED activation and fan operation as described, perform the following checks:

- Ensure that the power cord is connected to the Nortel Secure Network Access Switch 4050 and connected to the AC power source.
- Make sure the power source provides enough voltage and current. (See the power supply specifications listed in Appendix A, Table 9 on page 34 for information.)
- Ensure that the power switch on the rear of the system is turned on. Press the front panel power button.

If the system does not power on correctly after checking these items, contact Nortel Technical Support at www.nortel.com/support.

## No display text

If the system powers on and there are no boot messages or console prompt, perform the following checks:

- Ensure that the console cable is securely connected to the Nortel Secure Network Access Switch 4050 and also to the terminal or PC running the terminal session.
- Check to make sure you have used the console cable supplied with the Nortel Secure Network Access Switch 4050 system. (See “Terminal requirements” on page 29 for information.)

If the system display does not function after checking these items, contact Nortel Technical Support at www.nortel.com/support.

# Appendix A Specifications

This appendix covers the following topics:


| Topic | Page |
|---|---|
| Hardware and power supply specifications | 33 |
| Console port setup parameters | 35 |
| LAN connection speeds | 35 |
| Regulatory specifications | 35 |


## Hardware and power supply specifications

Table 8 lists hardware specifications for each characteristic of the switch. Table 9 lists power supply specifications for the switch.

**Table 8** Hardware specifications

| Characteristic | Measurement |
|---|---|
| Form Factor | 1U high custom base chassis |
| Dimensions (H x W xD) | 1.72 inches (44 millimeters) x 16.9 inches (429 millimeters) x 22 inches (559 millimeters) |
| Weight | approximately 25 pounds |
| Rack mountable | rack-mount hardware to allow mounting in 19 inch standard rack |
| Bezel | plastic front bezel with Nortel name/logo and Nortel SNAS 4050 model name and number |
| Processor | Intel Pentium-4, 2.8 Gigahertz (GHz), 533 Megahertz (MHz) Front Side Bus (FSB) |
| Memory | • (2) Gigabyte (GB) DDR 200/266MHz, ECC Registered<br>• populated as (2) 1GB DIMMs or (4) 512 Megabyte (MB) DIMMs |
| Chipset | ServerWorks ™ GC-SL |

**Table 8** Hardware specifications (continued)

| Characteristic | Measurement |
|---|---|
| LAN ports | (2) 10/100/1000Base-TX (copper) ports on the motherboard |
| Expansion slots | (2) full-height 64-bit 133/100/66MHz PCI-X slots |
| PCI Card | (1) Intel Dual Port Copper 10/100/1000 Base-TX GB-E IDE PCI card PWLA8492MT |
| Console port | (1) console port, DCE (DB9-F), RS-232C, 9600 Baud, 8-N-1<br>Pin 1, Pin 2 Transmit Data, Pin 3 Receive Data, Pin 4, Pin 5 Signal Ground, Pin 6 |
| USB port | (2) USB 1.1 ports |
| Drives | (1) 40 GB or 80GB IDE hard drive, 7200 RPM, ATA133 |
| System management | CPU temperature/voltage monitoring, fan monitoring |
| Light-emitting diodes (LED) | power (green); disk-drive activity (green)<br>System status (amber) includes the following:<br>• CPU fans 1-4<br>• System fans<br>• +5V, +12V<br>• CPU temperature<br>• Motherboard ambient temperature |
| Power supply | 300W, 100-240VAC, 50-60Hz<br>• Power consumption: 125W typical<br>• BTU: 429 BTU/hour average |
| Mean Time Between Failures (MTBF) | greater than fifty thousand hours |

**Table 9** Power supply specifications

| Power Type | Rating |
|---|---|
| AC Power Voltage | 100-240 VAC 6.3 A 50-60 Hz |
| Current | 6.3 Amperes (A) |
| Frequency | 50-60 Hertz (Hz) |
| Heat | 429 BTU/hour average |

# Console port setup parameters

Table 10 lists console port setup parameters for the switch.

**Table 10** Console port setup parameters

| Parameter | Value |
|---|---|
| Baud Rate | 9600 |
| Data Bits | 8 |
| Parity | None |
| Stop Bits | 1 |
| Flow Control | None |

# LAN connection speeds

Table 11 lists LAN connection speeds accommodated by the switch.

**Table 11** LAN connection speeds

| LAN connection speed | Connector | Medium |
|---|---|---|
| 10Base-T | RJ-45 | Cat. 3, 4, or 5 UTP |
| 100Base-TX | RJ-45 | Cat.5 UTP |
| 1000Base-T | RJ-45 | Cat.5 UTP |

# Regulatory specifications

Table 12 lists safety specifications. Table 13 lists emissions specifications. Table 14 lists certification marks.

**Table 12** Safety specifications

| Compliance | Country |
|---|---|
| UL60950 | USA |
| CSA22.2 No 60950 | Canada |

**Table 12** Safety specifications (continued)

| Compliance | Country |
|---|---|
| EN60950 | Europe |
| IEC60950 | Europe |

**Table 13** Emissions specifications

| Compliance | Country |
|---|---|
| FCC Part 15 Class A | USA |
| Canada ICES-003 Class A | Canada |
| AS/NZ 3548 | Australia & New Zealand<br>(standard replaced by EN55022) |
| EN55022 (emissions) & EN55024 (immunity) | Europe |
| CISPR-22 | Europe |
| VCCI | Japan |

**Table 14** Certification marks

| Compliance | Country |
|---|---|
| cULus | USA & Canada |
| CE | Europe |
| Gost | Russia |
| NOM | Mexico |
| S-Mark | Argentina |
| TUV-GS | Germany/Europe |
| MIC | Korea |

# Appendix B
# Safety Message Translations

This appendix provides translations of the Caution, Danger, and Warning messages that appear within this document.

**Caution:** This device is a Class A product. In a domestic environment, this device can cause radio interference, in which case the user may be required to take appropriate measures.

**Achtung:** Dieses Gerät ist ein Produkt der Klasse A. In Wohngebieten kann dieses Gerät Funkstörungen verursachen. In diesem Fall muß der Benutzer die erforderlichen Maßnahmen zur Beseitigung ergreifen.

**Attention:** Ce périphérique est un produit de classe A. Il peut provoquer des interférences radio dans un environnement domestique;si tel est le cas, l ’utilisateur devra prendre les mesures qui s ’imposent.

**Precaución:** Este dispositivo es un producto de Clase A. En un entorno doméstico, este dispositivo puede ocasionar interferencias de radio, en cuyo caso, el usuario deberá tomar las medidas necessarias.

**Attenzione:** Il dispositivo descritto nel presente documento è un prodotto di Classe A. Se usato in ambienti domestici, può provocare interferenze radio. In tal caso, l ’utente è tenuto a prendere provvedimenti adeguati.

**注意：**この機器は、クラスAの製品です。国内の環境で、この機器は電波障害を引き起こす恐れがあります。この場合、ユーザは適切な対策を講じる必要があります。

**注意：本设备属于A类设备。在居住环境中，本设备可能会造成无线电干扰。在这种情况下，用户可能需要采取适当的措施。**

警告: 该设备是 A 类产品。在住宅区内使用该设备可能会产生射频干扰，此时用户应采取相应的措施。

**Caution:** When mounting this device in a rack, do not stack units directly on top of one another in the rack. Each unit must be secured to the rack with appropriate mounting brackets. Mounting brackets are not designed to support multiple units.

**Achtung:** Wenn diese Einheit in einem Rack montiert wird, muß ein gewisser Abstand zur nächsten Einheit gelassen werden. Jede Einheit muß mit geeignetem Befestigungsmaterial gesichert werden. Das Befestigungsmaterial ist nicht für die gleichzeitige Befestigung mehrerer Einheiten geeignet.

**Attention :** si vous installez le module dans une baie, ne l'empilez pas directement sur un autre. Chaque module doit être fixé à sa propre baie à l'aide des supports de montage appropriés. Ces supports ne sont pas conçus pour résister à plusieurs modules.

**Precaución:** Cuando monte este dispositivo en un bastidor, no apile las unidades directamente una encima de otra. Cada unidad debe fijarse en el bastidor con las abrazaderas de montaje adecuadas. Las abrazaderas de montaje no están diseñadas para sostener varias unidades.

**Attenzione:** se il dispositivo viene installato in un rack, non impilare le unità direttamente una sull'altra. Ogni unità deve essere fissata al rack con le staffe di montaggio appropriate. Le staffe di montaggio non sono state progettate per supportare più unità.

**注意**：この装置をラックに設置する場合は、ラック内のユニットを直接積み重ねないようにしてください。各ユニットは専用の取り付けブラケットでラックに固定する必要があります。取り付けブラケットは複数のユニットを支えるようには設計されていません。

**警告**：在机架中安装此设备时，请勿将多个部件叠放在机架中。必须用合适的安装托架将各个部件固定在机架中。安装托架无法支撑多个部件。

**注意：**在機箱中掛載此裝置時，請不要直接在機箱中的另一個裝置上直接堆放裝置。每一裝置都必須使用適當的掛載托架以固定在機架中。掛載托架不能用來支撐多個裝置。

**Danger:** Use only power cords that have a grounding path. Without a proper ground, a person who touches the switch is in danger of receiving an electrical shock. Lack of a grounding path to the switch may result in excessive emissions.

**Vorsicht:** Verwenden Sie nur Netzkabel mit Schutzerdung. Ohne ordnungsgemäße Schutzerdung besteht für Personen, die den Switch berühren, die Gefahr eines elektrischen Schlages. Eine nichtvorhandene Schutzerdung kann zu sehr starken Abstrahlungen führen.

**Danger:** n 'utilisez que des cordons d 'alimentation équipés de trajet de mise à la terre. Sans mise à la terre adaptée, vous risquez de recevoir une décharge électrique en touchant le commutateur. Par ailleurs, l'absence de trajet de mise à la terre peut générer des émissions excessives.

**Peligro:** Utilice únicamente cables de alimentación con toma de tierra. De lo contrario, al tocar el interruptor puede recibir una descarga eléctrica. Si no hay un circuito de toma de tierra en el enchufe, puede producirse un exceso de emisiones.

**Pericolo:** Utilizzare esclusivamente cavi di alimentazione dotati di un percorso per la messa a terra. Senza un 'adeguata messa a terra, chiunque tocchi lo switch corre il rischio di ricevere una scossa elettrica. L 'assenza di un percorso per la messa a terra erso lo switch può comportare un eccesso di emissioni.

**危険**：接地経路を持つ電源コードを必ず使用するようにしてください。適切な接地がない状態でスイッチに触ると、感電する危険性があります。また、スイッチへの接地経路がないと、過度な放電を引き起こす可能性があります。

**危險：**請勿使用沒有接地的電線。若未妥善接地，接觸開關的人員可能有遭受觸電的危險。開關若缺乏接地則可能有漏電之虞。

**危险。请仅使用接地的电源线。如果电源线不接地或接地不当，接触交换机的人员可能会受到电击。如果交换机不接地，则可能导致放电过量。**

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